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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,900	12/24/2003	Joon-Kyu Park	8733.891.00-US	9191

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EXAMINER	
DINH, DUC Q	

ART UNIT	PAPER NUMBER
2629	

DATE MAILED: 07/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/743,900	PARK, JOON-KYU	
	Examiner	Art Unit	
	DUC Q. DINH	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 December 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-16* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This Office Action is responsive to the application filed on December 24, 2003. Claims 1-16 are pending in the application and being examined.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyazawa (U.S Patent No. 6,858,991).

In reference to claim 1, Miyazawa discloses an organic electroluminescent device (in Fig. 7) comprising:

a substrate (120);

a gate line on the substrate (Y1);

a data line (X1) crossing the gate line to define a pixel region (20);

a power line (L1, L2) substantially parallel to and spaced apart from the gate line (Y1);

a first switching thin film transistor ("Trs" see the detailed structure of pixel 200 in Fig. 8) connected to the gate line (Yn) and the data line (Xm);

a first driving thin film transistor (Tdr) connected to the first switching thin film transistor (Trs) and the power line (L2);

a storage capacitor (C1) connected to the first driving thin film transistor (Trd) and the power line (L2);

an organic electroluminescent diode (210) connected to the first driving thin film transistor (Trd);

a gate driver (130 in Fig. 7) connected to the gate line (Yn);

a data driver (140 in Fig. 7) connected to the data line (Xm); and

a power control driver (150 in Fig. 7) supplying a power voltage to the power line (L1), the power voltage having a first value during an emitting time section (Tel in Fig. 9) of a single frame (Tc) and a second value during a rest time section (Trp) of the single frame (Tc) [the electrical current through the path of the voltage supply line VL supplying from the power control circuit 150 supplying a voltage VC1 corresponding to the data current Idata which flows ... and this voltage is applied to the gate of the driving transistor... as a result, the electrical current Ids flows through the driving transistor Trd, and the OLED element begins to emits light in the light emitting period Tel; and power control driver 150 provide a second value during the writing period (not emitting light period) as shown see Fig. 8 and 9, col. 16, lines 49 – col. 17, line 6).

In reference to claim 2, Miyazawa discloses in Fig. 7, the gate driver (130) is disposed at a first side of the substrate (left side of the substrate panel 120), wherein the data driver (140) is

disposed at a second side adjacent to the first side (140 is disposed in the upper side of the substrate 120 adjacent to the first side), wherein the power control driver (150) is disposed at a third side opposite to the first side (power control driver circuit is disposed at a third side as claimed; see Fig. 10).

In reference to claim 3, Miyazawa discloses the organic electroluminescent device emits light during the emitting time (Tel) section and does not emit light during the rest time section (Trp; see Fig. 9).

In reference to claim 4, Miyazawa discloses in Fig. 8 that driving thin film transistor (Trd) has a driving gate electrode (Vg), a driving source (Vs) electrode and a driving drain electrode, wherein the storage capacitor (C1) is connected to the driving gate electrode (Vg).

In reference to claim 5, Miyazawa disclose second switching thin film transistor (Q) connected to the first switching thin film transistor (Trs) and a second driving thin film transistor (Trc) connected to the first driving thin film transistor (Trd) and the second switching thin film transistor (Q) [see Fig. 8].

In reference to claim 6, Miyazawa discloses an organic electroluminescent device (in Fig. 7), comprising:

a display panel (120) including a gate line (Y 1),

a data line (X1) and an organic electroluminescent diode (20);

a gate driver (130) supplying a gate signal to the gate line (Y1);

a data driver (140) supplying a data signal to the data line;

a power control driver (150) supplying a power voltage to the power line (L1), the power voltage having a first value during an emitting time (Tel) section of a single frame (Tc) and a

second value during a rest time section (Trp) of the single frame (see rejection of claim 1 and Fig. 9)

In reference to claim 7, Miyazawa discloses the organic electroluminescent device emits light during the emitting time (Tel) section and does not emit light during the rest time section (Trp) (see Fig 9).

In reference to claim 8, Miyazawa discloses the device comprising a power block (as can be seen in Fig. 8 the voltage Vdd is inherently supplied from a power source block) supplying an ON voltage to the power control driver (150), wherein the ON voltage has one value in the single frame (the ON voltage Vdd to the power control circuit 150 to emit light in the light emitting period Tel; see Fig. 9 and col. 15, lines 30-40).

In reference to claim 9, Miyazawa discloses the power control driver (150) processes the ON voltage to be the power voltage (see Fig. 9, col. 15, lines 30-40).

In reference to claim 10, Miyazawa discloses the power line (L1 and L2) is substantially parallel to and spaced apart from the gate line (Y1 see Fig. 10).

In reference to claim 11, Miyazawa discloses the display panel further includes a switching thin film transistor (Trs) connected to the gate line (Yn) and the data line (Xm), a driving thin film transistor (Trd) connected to the switching thin film transistor (Trs) and the power line (L2) and a storage capacitor (C1) connected to the driving thin film transistor (Trd) and the power line (L2) [see Fig. 8].

In reference to claim 12, Miyazawa discloses the gate signal and the data signal are applied to the switching thin film transistor (Trs), wherein the power voltage is applied to the organic electroluminescent diode (210) [see Fig. 7 and 8; col. 14, lines 48-67)

In reference to claim 13, Miyazawa discloses driving method of an organic electroluminescent device (120) having a driving circuit (130-140) and a display panel (120), comprising:

applying a gate signal (scanning signal) to a switching thin film transistor (Trs) of the display panel (120);

applying a data signal (Idata) to a driving thin film transistor (Trd) of the display panel (120) through the switching thin film transistor (Trs);

applying a first value of a power voltage to an organic electroluminescent diode (210) during an emitting time (Tel) section of a single frame (Tc);

applying a second value of the power voltage to the organic electroluminescent diode (210) during a rest time section (Trp) of the single frame gate (Tc) [see the rejection as applied to claim 1].

In reference to claim 14, Miyazawa disclose the driving circuit includes a gate driver (130), a data driver (140) and a power control driver (150) [see Fig. 10].

In reference to claim 15, Miyazawa discloses the gate signal is supplied from the gate driver (130), wherein the data signal is supplied from the data driver (140), wherein the power voltage is supplied from the power control driver (150) [see Fig. 7, col. 14 lines 45-60].

In reference to claim 16, Miyazawa discloses the gate signal turns ON/OFF the switching thin film transistor, wherein the data signal turns ON/OFF the driving thin film transistor (see Fig. 7, col. 14 lines 47-53).

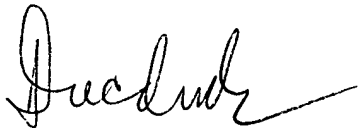
Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUC Q DINH
Examiner
Art Unit 2629
DQD



July 20, 2006